Index of Claims

| 1 | 4 | ۱p | p | li | са | tic | n/ | C | on | tro | ΙN | 0. |
|---|---|----|---|----|----|-----|----|---|----|-----|----|----|

10/659,257

Examiner

Karie O'Neill

Applicant(s)/Patent under Reexamination

ABE ET AL.

Art Unit

1745

| - | √ | Rejected |
|---|---|----------|
|   | = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
|   | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla            | aim      | Date   |              |  |  |  | $\neg$   | Claim Date                                       |          |           |          |          |          |          |          |          | Cla      | im T     | Date      |                 |          |     |          |          |          |          |  |  |                 |          |           |           |               |
|----------------|----------|--|--------------|--|--|--|--|--|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------------|----------|-----|----------|----------|----------|----------|--|--|-----------------|----------|-----------|-----------|---------------|
| <del>  "</del> |          |  |              |  |  |  |  |  |          |           |          | ŀ        | - "      |          |          | $\neg$   |          | Ť        | Ī         |                 | Т        | Т   | ᅱ        |          |          |          |  |  |                 |          |           |           |               |
| Final          | Original | 90/6/9   | 10/2/06      |  |  |  |  |  |          |           | Final    | Original |          |          |          |          |          |          |           |                 |          |     | Final    | Original |          |          |  |  |                 |          |           |           |               |
| _              | 1        | N  | N            | $\vdash$   | _  | $\vdash$   |  | $\vdash$   | $\vdash$ | $\dashv$  | $\vdash$ | 51       | -        | -        | -        | $\dashv$ | 十        | 十        | ╌         | 十               | $\dashv$ | ŀ   |          | 101      | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$   | -               | -        | $\dashv$  | $\dashv$  | ᅥ             |
|                | 2        | N  | N            | $\vdash$   | _  | $\vdash$   |  |  | $\vdash$ | $\dashv$  |          | 52       | $\dashv$ | $\dashv$ |          | $\dashv$ | 一        | 十        | 7         | 十               | ᅱ        | ŀ   |          | 102      | -        | -        | ᅥ  | 一  | $\dashv$        | $\dashv$ | $\dashv$  | $\dashv$  | ᅥ             |
|                | 3        | 7  | 7            |  | _  | $\vdash$   |  |  | $\dashv$ | $\dashv$  |          | 53       |          |          |          | $\dashv$ | -+       | -        | $\dashv$  | -               | $\dashv$ | ŀ   |          | 103      | $\dashv$ | -        |  | $\dashv$   | $\dashv$        | $\dashv$ | 十         | 十         | ᅱ             |
|                | 4        | 1  | Ţ            |  | _  |  | H  |  | $\dashv$ | $\dashv$  |          | 54       |          |          |          | $\dashv$ | -+       | $\dashv$ | $\dashv$  | $\dashv$        | ᅱ        | ŀ   |          | 104      | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$   | $\dashv$        | $\dashv$ | $\dashv$  | $\dashv$  | $\dashv$      |
| <u>-</u>       | 5        | 7  | i            |  |  | $\vdash$   |  |  | $\vdash$ | $\dashv$  | -        | 55       |          | -        |          |          | $\dashv$ | 十        |           | $\dashv$        | -        | ŀ   |          | 105      | $\dashv$ | ᅱ        |  |  |                 | _        | $\dashv$  | $\dashv$  | $\dashv$      |
|                | 6        | 7  | 1            | $\vdash$   |  |  | -  | $\vdash$   | $\vdash$ | $\dashv$  | -        | 56       |          |          | -        | $\dashv$ | +        | +        | ᅥ         | $\dashv$        |          | ŀ   |          | 106      | -        |          |  | $\dashv$   | $\dashv$        | _        | $\dashv$  | $\dashv$  |               |
|                | 7        | 1  | 1            | H  |  |  |  |  |          | $\dashv$  | 1        | 57       |          | -        |          | $\dashv$ | $\dashv$ | -        | $\dashv$  | $\dashv$        | $\dashv$ | ŀ   |          | 107      | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$   |                 | $\dashv$ | $\dashv$  | 十         | $\dashv$      |
|                | 8        | 1  | 1            | $\vdash$   |  |  | -  |  |          | _         |          | 58       | $\Box$   |          | $\neg$   | $\dashv$ | 十        | 十        | $\dashv$  | 十               | $\dashv$ | ŀ   |          | 108      | $\dashv$ | 一        | -  | _  |                 | 1        | 十         | 十         | $\dashv$      |
|                | 9        | 1  | Ī            | $\vdash$   |  |  |  |  |          |           |          | 59       |          |          |          |          | 寸        |          | 1         |                 |          | ŀ   |          | 109      |          |          |  | $\dashv$   | $\neg \uparrow$ | 寸        | 十         | 十         | $\dashv$      |
| <u> </u>       | 10       | i  | Ì            | Н  | _  |  | $\vdash$   | ┢  |          |           |          | 60       | Н        |          |          | $\dashv$ | -        | _        | 1         | $\dashv$        | $\neg$   |     |          | 110      | _        | 一        |  |  |                 | _        | $\dashv$  | $\dashv$  | $\dashv$      |
|                | 11       | 1  | 1            | $\vdash$   | _  |  | -  | -  | Н        | -         | 1        | 61       |          |          |          | $\dashv$ | 寸        | $\dashv$ | $\dashv$  | $\dashv$        | $\neg$   | ı   |          | 111      | _        | -        |  |  |                 | _        | 寸         | 7         | -             |
| <b>—</b>       | 12       | 1  |              | H  |  | ┰  |  | -  | Н        | $\dashv$  | 1        | 62       |          |          | Н        |          | 寸        | 寸        | 7         | 寸               | $\dashv$ | 1   |          | 112      | -        | -        |  |  |                 |          | ┪         | ヿ         | $\neg$        |
| -              | 13       | 1  |              |  |  |  |  | $\vdash$   |          |           |          | 63       |          | Н        | $\vdash$ |          | 寸        |          |           | _               | $\dashv$ | ı   |          | 113      | 1        |          |  |  |                 | $\neg$   | 寸         | 十         |               |
| -              | 14       | 1  |              | $\vdash$   | _  |  | <del> </del>                                     | <del>                                     </del> | Н        | $\dashv$  |          | 64       | Н        | Н        |          | $\vdash$ | $\neg$   | $\dashv$ | -         | $\dashv$        | $\dashv$ | ŀ   |          | 114      | $\dashv$ |          |  |  |                 | $\dashv$ | $\dashv$  | $\dashv$  | $\neg$        |
| -              | 15       | Ė  | Ť            | Н  |  |  | $\vdash$   | ┢  |          | -         | -        | 65       |          |          |          | -        | $\dashv$ | $\dashv$ | _         | $\dashv$        | $\dashv$ |     | -        | 115      | -        |          |  |  |                 | $\dashv$ | -         | -         | $\dashv$      |
|                | 16       | -  |              | Н  | _  | ┢  | ┼  |  | Н        | $\exists$ |          | 66       |          |          |          | 11.00    |          | _        | 7         | $\dashv$        | $\dashv$ | 1   |          | 116      | ヿ        |          |  |  |                 | $\dashv$ | _         | $\dashv$  | $\neg$        |
|                | 17       |  | -            | Н  |  |  |  | $\vdash$   | Н        | $\dashv$  | -        | 67       | Н        |          |          | П        | 寸        | 寸        |           |                 | ᅱ        | 1   |          | 117      | _        |          |  |  |                 |          | $\dashv$  | 寸         |               |
| $\vdash$       | 18       | _  |              | Н  | $\vdash$   | $\vdash$   | H  | Н  | Н        |           |          | 68       |          |          |          | $\vdash$ |          | -        | 一         | $\dashv$        |          |     |          | 118      |          |          |  |  |                 |          | 7         |           | $\neg$        |
|                | 19       |  | _            | Н  | ┢  | ┢  | ┢  | -  |          | $\dashv$  |          | 69       | H        |          | $\vdash$ |          | $\dashv$ | -        | 一         | $\dashv$        | _        |     |          | 119      | 一        |          |  |  |                 |          |           | $\dashv$  | _             |
|                | 20       | $\vdash$   |              |  | _  | -  | $\vdash$   | ┢  |          | $\dashv$  |          | 70       |          |          |          |          | T        |          | 一         | 寸               |          |     |          | 120      | _        |          |  |  |                 |          | ヿ         | ヿ         |               |
|                | 21       |  | <u> </u>     | H  | $\vdash$   | $\vdash$   | $\vdash$   |  |          | $\dashv$  |          | 71       | _        | $\vdash$ | $\vdash$ |          | ᅥ        | $\neg$   |           | -               |          |     |          | 121      |          |          |  |  |                 |          | 一         | 7         |               |
|                | 22       | ┢  | <del> </del> | Н  |  | t  |  | $\vdash$   | $\vdash$ | $\dashv$  |          | 72       |          | $\vdash$ |          |          |          | $\dashv$ | $\dashv$  | 寸               | $\dashv$ |     |          | 122      | _        |          | _  | П  |                 |          | $\dashv$  | 寸         |               |
|                | 23       |  | H            | Н  | $\vdash$   | $\vdash$   | <del> </del>                                     | <del> </del>                                     | H        | $\dashv$  |          | 73       |          | <u> </u> |          |          |          | 7        | ヿ         | 7               | ╗        |     |          | 123      |          |          | $\overline{}$                                    |  |                 |          | $\exists$ | $\dashv$  |               |
|                | 24       | $\vdash$   | $\vdash$     | Н  | $\vdash$   | $\vdash$   | <del>                                     </del> | 一  |          |           |          | 74       |          | ┢        |          |          | _        | -        |           | ヿ               | ┪        |     |          | 124      |          |          |  |  |                 |          | $\neg$    | $\neg$    |               |
| -              | 25       |  | $\vdash$     | Н  | $\vdash$   | $\vdash$   | $\vdash$   | -  | -        |           |          | 75       |          | -        |          |          |          | -1       | $\neg$    | ヿ               | $\neg$   |     |          | 125      |          |          |  |  |                 |          | 寸         | ヿ         |               |
|                | 26       |  | $\vdash$     |  | $\vdash$   | t  | t  | H  | H        | $\Box$    |          | 76       |          |          |          |          | $\neg$   | $\neg$   | $\neg$    | 寸               | 一        |     |          | 126      |          |          |  |  |                 | П        | ヿ         |           |               |
|                | 27       | $\vdash$   |              | Н  | -  | <del>                                     </del> | $\vdash$   | H  |          | $\dashv$  |          | 77       |          |          |          |          |          |          | $\dashv$  | $\exists$       | 7        | - 1 |          | 127      |          |          |  |  |                 | П        | 一         | 寸         |               |
| -              | 28       | 一  | $\vdash$     | Н  | $\vdash$   | <del>                                     </del> | $\vdash$   | <u> </u>   |          |           |          | 78       |          |          |          | Н        | 一        | 7        |           | $\dashv$        |          |     |          | 128      | $\neg$   |          | _  |  |                 | П        | $\exists$ | 一         |               |
|                | 29       | $\vdash$   | _            |  | $\vdash$   | T  | $\vdash$   | t  | _        |           |          | 79       |          |          | $\vdash$ |          |          |          |           |                 |          |     |          | 129      |          |          |  |  |                 |          | $\neg$    | $\neg$    | $\overline{}$ |
|                | 30       | ┢  |              | Н  | $\vdash$   | $\vdash$   | $\vdash$   |  |          | $\neg$    |          | 80       | Г        |          | _        |          | $\neg$   | _        | $\neg$    |                 | $\neg$   |     |          | 130      |          |          |  |  |                 |          |           | ヿ         | _             |
|                | 31       |  |              | Н  | $\vdash$   | H  |  | $\vdash$   |          |           |          | 81       | H        |          | _        |          | 一        |          |           |                 | $\dashv$ |     |          | 131      | $\neg$   |          |  |  |                 |          | П         | コ         |               |
|                | 32       |  |              | Н  | -  |  |  |  |          |           |          | 82       | T        |          | $\vdash$ | Н        | $\neg$   | $\dashv$ |           |                 |          |     |          | 132      |          |          |  |  |                 |          | $\Box$    |           |               |
|                | 33       | $\vdash$   |              |  |  |  | T  | t  |          | $\dashv$  |          | 83       |          |          | $\vdash$ |          | $\neg$   | 寸        |           | $\dashv$        | $\neg$   |     |          | 133      |          |          |  |  |                 | П        |           | $\neg$    |               |
|                | 34       | <del>                                     </del> | -            |  | Г  | T  | 1  | П  | Г        | $\dashv$  | -        | 84       | Г        | Г        |          |          | $\neg$   |          |           |                 | $\neg$   |     |          | 134      |          |          |  |  |                 |          | $\sqcap$  | コ         | $\overline{}$ |
| <b>—</b>       | 35       |  |              |  |  | 1  | 1  | Π  | П        |           |          | 85       | _        | Π        | Г        | П        |          |          | $\neg$    | $\neg$          |          |     |          | 135      |          |          |  |  |                 | П        | $\Box$    | $\Box$    | _             |
|                | 36       | П  |              |  |  | 1  | 1  |  | П        | $\Box$    |          | 86       | T        | _        |          | П        |          | $\neg$   | $\neg$    | $\neg$          | $\neg$   |     |          | 136      |          |          | Γ  |  |                 | П        | П         | $\neg$    |               |
|                | 37       |  | $\vdash$     | П  |  | 1  | T  | $\vdash$   | T        |           |          | 87       |          | <u> </u> |          | П        |          | $\neg$   | 一         | $\neg$          | $\neg$   |     |          | 137      |          |          |  |  |                 |          |           | $\neg$    |               |
|                | 38       |  | Т            | П  | _  | 1  |  | 1  | Г        | $\Box$    |          | 88       | $\vdash$ | $\vdash$ | $\Box$   | П        | $\neg$   | _        |           |                 | $\neg$   |     |          | 138      |          |          | $\Box$   |  |                 | П        | $\sqcap$  | $\neg$    | _             |
|                | 39       | t  | T            | П  | $\vdash$   | T  | 1-   | $\vdash$   | $t^-$    | $\Box$    |          | 89       |          |          | $I^-$    | П        |          | 7        | -         | $\neg$          | $\neg$   |     |          | 139      |          |          |  | П  | П               |          | $\sqcap$  |           |               |
|                | 40       | T  |              |  | T  | Т  | <del> </del>                                     | 1  | 1        |           |          | 90       | Г        | 1        | Г        | П        |          | $\dashv$ | $\exists$ | $\dashv$        | $\dashv$ |     |          | 140      |          | <u> </u> |  | Г  |                 | П        | $\sqcap$  |           |               |
|                | 41       | $\vdash$   | $t^-$        | $\vdash$   | <del>                                     </del> | $\vdash$   |  | t  | T        | $\vdash$  |          | 91       | T        |          |          |          |          | $\dashv$ |           | H               |          |     |          | 141      |          |          |  |  |                 |          | П         | $\exists$ | _             |
|                | 42       | T  | T            | <del>                                     </del> | $\vdash$   | $t^-$  | T  | Т  | $\vdash$ | $\vdash$  |          | 92       | t        | $\vdash$ | Г        | М        | $\vdash$ |          |           | $\vdash \dashv$ | $\dashv$ |     |          | 142      |          | Г        |  | $\Box$   | П               |          | $\Box$    | $\neg$    | $\overline{}$ |
|                | 43       | <del>                                     </del> |              | T  |  | $\vdash$   | $\vdash$   | T  |          | $\vdash$  |          | 93       | <u> </u> |          | Г        | $\Box$   | $\neg$   | $\neg$   | $\neg$    | $\vdash$        | $\neg$   |     |          | 143      |          | $\vdash$ |  |  |                 | Г        | $\Box$    | $\neg$    |               |
| -              | 44       | 1  | $\vdash$     | T  | $\vdash$   |  | $\vdash$   | 1  | 1        | $\square$ |          | 94       |          | Г        | Π        | П        |          | $\neg$   |           | Н               | -        |     |          | 144      |          | 1        | 1  | Г  | $\vdash$        | Π        | $\sqcap$  | $\neg$    | _             |
|                | 45       | T  | _            |  | 1  | 1  | 1  | t  | H        | Н         |          | 95       | <u> </u> |          | 1        | $\vdash$ | Н        | -        |           | Н               | Н        |     |          | 145      |          | T        | <del>                                     </del> |  |                 | П        | $\Box$    | $\neg$    | _             |
|                | 46       | 1  | $\vdash$     | T  | $\vdash$   | T  | T  | <del> </del>                                     | 1        | $\square$ |          | 96       | <u> </u> | $\vdash$ | T        | Г        | $\vdash$ | $\vdash$ |           | H               | $\dashv$ |     |          | 146      |          | Г        |  | <del>                                     </del> |                 |          | П         | $\neg$    | $\overline{}$ |
|                | 47       | $\vdash$   | $\vdash$     | $\vdash$   | <del> </del>                                     | +  | T  | $t^-$  | 1        | H         | <u> </u> | 97       | T        | $\vdash$ | 1        |          | Н        | $\neg$   |           |                 | $\dashv$ |     | <u> </u> | 147      |          |          |  |  |                 | T        | П         | $\neg$    | Γ             |
|                | 48       | 1  | $\vdash$     |  |  | T  |  | t  | $\vdash$ | H         |          | 98       | Т        | $\vdash$ | T        | Г        | $\vdash$ | $\neg$   |           | $\vdash$        | $\vdash$ |     |          | 148      | П        |          |  |  |                 |          | П         | $\neg$    | Γ             |
|                | 49       | T  | T            | Т  | 1  | 1  | T  | $\vdash$   | T        | $\Box$    |          | 99       | 1        |          |          | П        | М        |          |           | Н               | М        |     |          | 149      |          | T        | Г  | Π  |                 |          |           | $\neg$    | $\overline{}$ |
|                | 50       | T  | $t^-$        | Т  | 1  | 1  | T  | T  | Т        | $\vdash$  |          | 100      | T        | Г        |          | T        | П        |          | _         | $\vdash$        | П        |     |          | 150      |          |          |  | Г  |                 | П        | П         | $\neg$    | $\overline{}$ |
|                |          |  |              |  |  |  |  |  |          |           |          |          |          |          |          |          |          |          |           |                 |          |     |          |          |          |          |  |  |                 |          |           |           |               |